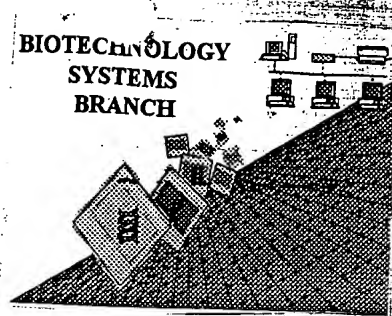


Crouch

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



12/29/00

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/662,128

Source: 1632

Date Processed by STIC: 12/13/2000

RECEIVED

DEC 28 2000

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin30help@uspto.gov](mailto:patin30help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

1632

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/662,128

DATE: 12/13/2000  
TIME: 10:41:39

Input Set : A:\19733US0.txt  
Output Set: N:\CRF3\12132000\I662128.raw

Does Not Comply  
Corrected Diskette Needed

ppr 1-4

3 <110> APPLICANT: MIYAGAWA, SHUJI  
4 OKABE, MASARU  
6 <120> TITLE OF INVENTION: MODIFIED CRE RECOMBINASE GENE FOR MAMMALS  
8 <130> FILE REFERENCE: 197330US0  
10 <140> CURRENT APPLICATION NUMBER: 09/662,128  
11 <141> CURRENT FILING DATE: 2000-09-14  
13 <150> PRIOR APPLICATION NUMBER: JP11-264364  
14 <151> PRIOR FILING DATE: 1999-09-17  
16 <160> NUMBER OF SEQ ID NOS: 6  
18 <170> SOFTWARE: PatentIn version 3.0  
20 <210> SEQ ID NO: 1  
21 <211> LENGTH: 1050  
22 <212> TYPE: DNA  
23 <213> ORGANISM: Artificial/Unknown  
25 <220> FEATURE:  
26 <221> NAME/KEY: CDS  
27 <222> LOCATION: (1)..(1050)  
29 <220> FEATURE:  
30 <221> NAME/KEY: misc\_feature  
31 <222> LOCATION: ()..()  
32 <223> OTHER INFORMATION: Description of Artificial Sequence: gene  
35 <400> SEQUENCE: 1  
36 atg ccc aag aag aag agg aag gtg agc aac ctg ctg acc gtg cac cag 48  
37 Met Pro Lys Lys Lys Arg Lys Val Ser Asn Leu Leu Thr Val His Gln  
38 1 5 10 15  
40 aac ctg ccc gcc ctg ccc gtg gac gcc acc agc gac gag gtg cgc aag 96  
41 Asn Leu Pro Ala Leu Pro Val Asp Ala Thr Ser Asp Glu Val Arg Lys  
42 20 25 30  
44 aac ctg atg gac atg ttc cgc gac cgc cag gcc ttc agc gag cac acc 144  
45 Asn Leu Met Asp Met Phe Arg Asp Arg Gln Ala Phe Ser Glu His Thr  
46 35 40 45  
48 tgg aag atg ctg ctg agc gtg tgc cgc agc tgg gcc gcc tgg tgc aag 192  
49 Trp Lys Met Leu Leu Ser Val Cys Arg Ser Trp Ala Ala Trp Cys Lys  
50 50 55 60  
52 ctg aac aac cgc aag tgg ttc ccc gcc gag ccc gag gac gtg cgc gac 240  
53 Leu Asn Asn Arg Lys Trp Phe Pro Ala Glu Pro Glu Asp Val Arg Asp  
54 65 70 75 80  
56 tac ctg ctg tac ctg cag gcc cgc gcc ctg gcc gtg aag acc atc cag 288  
57 Tyr Leu Leu Tyr Leu Gln Ala Arg Gly Leu Ala Val Lys Thr Ile Gln  
58 85 90 95  
60 cag cac ctg gcc cag ctg aac atg ctg cac cgc cgc agc gcc ctg ccc 336  
61 Gln His Leu Gly Gln Leu Asn Met Leu His Arg Arg Ser Gly Leu Pro  
62 100 105 110  
64 cgc ccc agc gac agc aac gcc gtg agc ctg gtg atg cgc cgc atc cgc 384  
65 Arg Pro Ser Asp Ser Asn Ala Val Ser Leu Val Met Arg Arg Ile Arg  
66 115 120 125  
68 aag gag aac gtg gac gcc gcc gag cgc gcc aag cag gcc ctg gcc ttc 432

Per 1.823 new Sequence Rules,  
<213> response is either Unknown,  
Artificial Sequence, or  
scientific name  
(Genus/species)

one of the above

Since <223> response  
is "Description of  
Artificial Sequence,"  
use Artificial Sequence  
as <213> response.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/662,128

DATE: 12/13/2000

TIME: 10:41:39

Input Set : A:\19733US0.txt

Output Set: N:\CRF3\12132000\I662128.raw

```

69 Lys Glu Asn Val Asp Ala Gly Glu Arg Ala Lys Gln Ala Leu Ala Phe
70      130      135      140
72 gag cgc acc gac ttc qac caq qtg cgc agc ctg atg gag aac agc gac      480
73 Glu Arg Thr Asp Phe Asp Gln Val Arg Ser Leu Met Glu Asn Ser Asp
74 145      150      155      160
76 cgc tgc cag gac atc cgc aac ctg gcc ttc ctg ggc atc gcc tac aac      528
77 Arg Cys Gln Asp Ile Arg Asn Leu Ala Phe Leu Gly Ile Ala Tyr Asn
78      165      170      175
80 acc ctg ctg cgc atc gcc gag atc gcc cgc atc cgc gtg aag gac atc      576
81 Thr Leu Leu Arg Ile Ala Glu Ile Ala Arg Ile Arg Val Lys Asp Ile
82      180      185      190
84 agc cgc acc gac ggc ggc cgc atg ctg atc cac atc ggc cgc acc aag      624
85 Ser Arg Thr Asp Gly Gly Arg Met Leu Ile His Ile Gly Arg Thr Lys
86      195      200      205
88 acc ctg qtg agc acc gcc ggc gtg gag aag gcc ctg agc ctg ggc qtg      672
89 Thr Leu Val Ser Thr Ala Gly Val Glu Lys Ala Leu Ser Leu Gly Val
90      210      215      220
92 acc aag ctg gtg gag cgc tgg atc agc qtg agc ggc gtg gcc gac gac      720
93 Thr Lys Leu Val Glu Arg Trp Ile Ser Val Ser Gly Val Ala Asp Asp
94 225      230      235      240
96 ccc aac aac tac ctg ttc tgc cgc gtg cgc aag aac ggc gtg gcc gcc      768
97 Pro Asn Asn Tyr Leu Phe Cys Arg Val Arg Lys Asn Gly Val Ala Ala
98      245      250      255
100 ccc agc gcc acc agc cag ctg agc acc cgg gcc ctg gag ggc atc ttc      816
101 Pro Ser Ala Thr Ser Gln Leu Ser Thr Arg Ala Leu Glu Gly Ile Phe
102      260      265      270
104 gag gcc acc cac cgc ctg atc tac gcc gcc aag gac gac agc ggc cag      864
105 Glu Ala Thr His Arg Leu Ile Tyr Gly Ala Lys Asp Asp Ser Gly Gln
106      275      280      285
108 cgc tac ctg gcc tgg agc ggc cac agc gcc cgc gtg ggc gcc gcc cgc      912
109 Arg Tyr Leu Ala Trp Ser Gly His Ser Ala Arg Val Gly Ala Ala Arg
110      290      295      300
112 gac atg gcc cgc gcc ggc gtg agc atc ccc gag atc atg cag gcc ggc      960
113 Asp Met Ala Arg Ala Gly Val Ser Ile Pro Glu Ile Met Gln Ala Gly
114 305      310      315      320
116 ggc tgg acc aac gtg aac atc gtg atg aac tac atc cgc aac ctg gac      1008
117 Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr Ile Arg Asn Leu Asp
118      325      330      335
120 agc gag acc ggc gcc atg gtg cgc ctg ctg gag gac ggc gac      1050
121 Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu Asp Gly Asp
122      340      345      350
125 <210> SEQ ID NO: 2
126 <211> LENGTH: 350
127 <212> TYPE: PRN
128 <213> ORGANISM: Artificial/Unknown
130 <220> FEATURE:
131 <221> NAME/KEY: misc_feature
132 <222> LOCATION: ( )..( )
133 <223> OTHER INFORMATION: Description of Artificial Sequence: gene

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/662,128

DATE: 12/13/2000

TIME: 10:41:39

Input Set : A:\19733US0.txt

Output Set: N:\CRF3\12132000\I662128.raw

135 <400> SEQUENCE: 2  
 137 Met Pro Lys Lys Lys Arg Lys Val Ser Asn Leu Leu Thr Val His Gln  
 138 1 5 10 15  
 141 Asn Leu Pro Ala Leu Pro Val Asp Ala Thr Ser Asp Glu Val Arg Lys  
 142 20 25 30  
 145 Asn Leu Met Asp Met Phe Arg Asp Arg Gln Ala Phe Ser Glu His Thr  
 146 35 40 45  
 149 Trp Lys Met Leu Leu Ser Val Cys Arg Ser Trp Ala Ala Trp Cys Lys  
 150 50 55 60  
 153 Leu Asn Asn Arg Lys Trp Phe Pro Ala Glu Pro Glu Asp Val Arg Asp  
 154 65 70 75 80  
 157 Tyr Leu Leu Tyr Leu Gln Ala Arg Gly Leu Ala Val Lys Thr Ile Gln  
 158 85 90 95  
 161 Gln His Leu Gly Gln Leu Asn Met Leu His Arg Arg Ser Gly Leu Pro  
 162 100 105 110  
 165 Arg Pro Ser Asp Ser Asn Ala Val Ser Leu Val Met Arg Arg Ile Arg  
 166 115 120 125  
 169 Lys Glu Asn Val Asp Ala Gly Glu Arg Ala Lys Gln Ala Leu Ala Phe  
 170 130 135 140  
 173 Glu Arg Thr Asp Phe Asp Gln Val Arg Ser Leu Met Glu Asn Ser Asp  
 174 145 150 155 160  
 177 Arg Cys Gln Asp Ile Arg Asn Leu Ala Phe Leu Gly Ile Ala Tyr Asn  
 178 165 170 175  
 181 Thr Leu Leu Arg Ile Ala Glu Ile Ala Arg Ile Arg Val Lys Asp Ile  
 182 180 185 190  
 185 Ser Arg Thr Asp Gly Gly Arg Met Leu Ile His Ile Gly Arg Thr Lys  
 186 195 200 205  
 189 Thr Leu Val Ser Thr Ala Gly Val Glu Lys Ala Leu Ser Leu Gly Val  
 190 210 215 220  
 193 Thr Lys Leu Val Glu Arg Trp Ile Ser Val Ser Gly Val Ala Asp Asp  
 194 225 230 235 240  
 197 Pro Asn Asn Tyr Leu Phe Cys Arg Val Arg Lys Asn Gly Val Ala Ala  
 198 245 250 255  
 201 Pro Ser Ala Thr Ser Gln Leu Ser Thr Arg Ala Leu Glu Gly Ile Phe  
 202 260 265 270  
 205 Glu Ala Thr His Arg Leu Ile Tyr Gly Ala Lys Asp Asp Ser Gly Gln  
 206 275 280 285  
 209 Arg Tyr Leu Ala Trp Ser Gly His Ser Ala Arg Val Gly Ala Ala Arg  
 210 290 295 300  
 213 Asp Met Ala Arg Ala Gly Val Ser Ile Pro Glu Ile Met Gln Ala Gly  
 214 305 310 315 320  
 217 Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr Ile Arg Asn Leu Asp  
 218 325 330 335  
 221 Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu Asp Gly Asp  
 222 340 345 350  
 225 <210> SEQ ID NO: 3  
 226 <211> LENGTH: 34  
 227 <212> TYPE: DNA  
 228 <213> ORGANISM: Artificial/Unknown

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/662,128  
 DATE: 12/13/2000  
 TIME: 10:41:39

Input Set : A:\19733US0.txt  
 Output Set: N:\CRF3\12132000\I662128.raw

```

230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: ()..()
233 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
236 <400> SEQUENCE: 3
237 ataacttcgt atagcatata ttatacgaag ttat
240 <210> SEQ ID NO: 4 34
241 <211> LENGTH: 29
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial/Unknown
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: ()..()
248 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
251 <400> SEQUENCE: 4
252 ttcgtatagc atagattata cgaagttat
255 <210> SEQ ID NO: 5 29
256 <211> LENGTH: 29
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial/Unknown
260 <220> FEATURE:
261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: ()..()
263 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
266 <400> SEQUENCE: 5
267 ataacttcgt atagcatata ttatacgaa
270 <210> SEQ ID NO: 6 29
271 <211> LENGTH: 21
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial/Unknown
275 <220> FEATURE:
276 <221> NAME/KEY: misc_feature
277 <222> LOCATION: ()..()
278 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
281 <400> SEQUENCE: 6
282 cccaagaaga agaggaaggt g
21

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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/662,128  
DATE: 12/13/2000  
TIME: 10:41:40  
Input Set : A:\19733US0.txt  
Output Set: N:\CRF3\12132000\I662128.raw